DEC STD 076-0 Plastics Selection and Identification

DOCUMENT IDENTIFIER: A-DS-EL00076-00-0000 Rev E, 25-Feb-1992

ABSTRACT: This standard provides information for specifying plastic raw materials on engineering documentation. It also references information found in other documents that can be used to identify and select plastic materials.

APPLICABILITY: This standard is mandatory for use by Digital personnel responsible for defining plastics in engineering documentation.

STATUS: APPROVED 25-Feb-1992; use VTX SMC for current status.

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1 INTRODUCTION

This standard defines the conventions for identifying plastic raw materials in engineering documentation using the *076-class Material Identifier*. These material identifiers are used in engineering documentation for record-keeping purposes.

1.1 SCOPE

This standard explains the 076-class plastic raw material identifier used in engineering documentation. It also provides a uniform method for identifying grades, properties, and applications of generic plastic materials.

Materials described in this standard are used by Digital's suppliers to mold or fabricate parts to Digital's specifications. Such specifications are usually provided by engineering drawings.

Using this standard facilitates the initial selection and identification of plastic raw materials. It is not intended to be a design guide.

NOTE

The material identifiers described in this standard are for engineering designs created after the release of *DEC STD 076-0 Plastics Selection and Identification, Rev C*. See Appendix A for material identifiers used before this release.

1.2 RESPONSIBILITIES

The following paragraphs define the responsibilities of groups involved in the procurement of plastics.

1.2.1 Design Engineering

Design engineers are responsible for defining plastic raw material in documentation using the conventions described in the text under heading 2 of this standard. Design engineers must consult with the Plastics Technology and Development Group if a material identifier cannot be determined.

1.2.2 Procurement

Individuals who use engineering documentation for procurement purposes are responsible for the correct interpretation of 076 material identifiers as defined in text under heading 2 of this document.

1.2.3 Plastic Material Availability

Table 1 lists all of the plastic materials that are currently available through established purchasing channels. Additional plastic raw materials may be added to this list by contacting the *responsible person* for this standard.

2 MATERIAL IDENTIFIER

Plastic raw materials are identified in engineering documents using a material identifier in a 3-4-3 format. This format includes predefined fields that identify the prominent characteristics of each material.

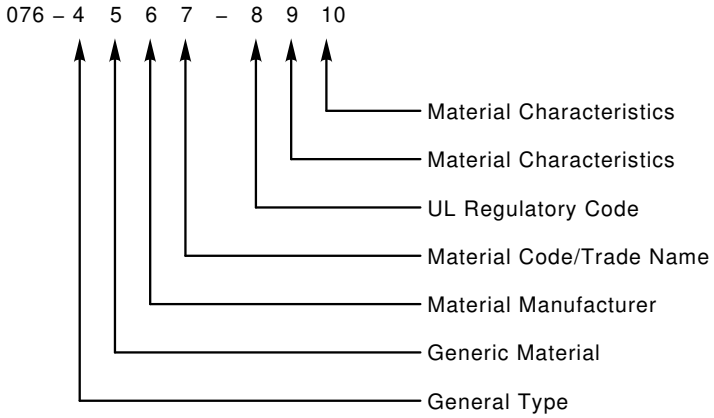
The material identifier specifies DEC STD 076 general group material, generic material manufacturer, material code and trade name, Underwriters Laboratories (UL) regulatory code, and material characteristics.

NOTE

The material identifier does not represent the form in which the material is identified for purchase.

2.1 FORMAT

The plastic material identifier has a 3-4-3 format structured as follows.



NOTE

No blank spaces are allowed in this format.

First three characters:	Will always be 076.
Fourth character:	Designates general type of polymeric material. See Table 2.
Fifth character:	Designates generic polymeric material. See Table 3.
Sixth character:	Designates material manufacturer. See Table 4.
Seventh character:	Designates material code and trade name. See Table 5.
Eighth character:	Designates material's UL regulatory code. See Table 6.
Ninth and tenth characters:	Designate specific material characteristics. See Table 7.

2.2 USE OF MATERIAL IDENTIFIERS

The design engineer shall place the material identifier in the material block of the drawing's title block.

NOTE

1. Information that is not encoded in the material identifier must be shown in the engineering drawing notes.

2. Finish requirements must be separately identified in engineering drawing notes. Refer to *DEC STD 092-4 Finish And Color Standard – Approved Finish Specifications.*

3. Material performance requirements that are not included in the material identifier must be detailed in the part's engineering drawing notes.

3 IDENTIFICATION AND MARKING

Plastic parts must be identified as specified in *DEC STD 178-1 Digital Marking Requirements for Piece Parts*.

Table 1: Current Plastic Materials and Identifiers

Code	General Type	Generic Material	Material Manufac-turer	Material Code/Trade Name	UL Reg-ulatory Code	Material/ Characteris-tics
AAAC-BOC	TP	PPO	GE	Noryl PX4400	V0/5V	Worldwide, colormatch
AAAD-BOO	TP	PPO	GE	Noryl N190	V0/5V	–
AAAE-AEA	TP	PPO	GE	Noryl HM4025	V1/5V	25% Glass/ 15% mineral
AAAF-CFA	TP	PPO	GE	Noryl HM5030	5V	30% Glass/ 20% mineral
AAAG-AEB	TP	PPO	GE	Noryl HM4025-R	V1/5V	25% Glass/ 15% mineral (release grade)
AAAI-HDB	TP	PPO	GE	Noryl HM3020	5VA/V0	20% Glass/ 10% mineral
ABAB-DOB	TP	PC	GE	Lexan 940	V0	Flame retardant
ABAC-DOO	TP	PC	GE	Lexan BE2130	V0	–
ABAD-DOD	TP	PC	GE	Lexan BE3030	V0	Low viscosity
ABAE-FOE	TP	PC	GE	Lexan 121	V2	Low viscosity/ transparent
ABAF-FOF	TP	PC	GE	Lexan 141	V2	Medium viscosity
ABAI-BOO	TP	PC	GE	Lexan 920A	V0/5V	–
ABAJ-COO	TP	PC	GE	ML6000	5V	–
ABDA-FOO	TP	PC	Mobay	Makrolon 2600	V2	–
ABDB-FOO	TP	PC	Mobay	Makrolon 2800	V2	–
ABDC-DOO	TP	PC	Mobay	Makrolon 6455	V0	–
ABEA-EDO	TP	PC	LNP	DF 1004-DEC	V1	20% Glass
ABEB-EFO	TP	PC	LNP	DF 1006-DEC	V1	30% Glass
ABEC-EHO	TP	PC	LNP	DF 1008-DEC	V1	40% Glass
ABED-DJA	TP	PC	LNP	PDX-D-88728-DEC	V0	5% SS/ colormatch 217
ABEE-DOO	TP	PC	LNP	PDX-D-88414-DEC	V0	–
ABEF-DOO	TP	PC	LNP	PDX-D-87190-DEC	V0	–
ABMA-DGA	TP	PC	PCI/ Hoecsht	Celstran PCG35-02-4	V0	35% Long glass fiber
ABMB-DED	TP	PC	PCI/ Hoecsht	Celstran PCG25-02-4		25% Long glass fiber
ACAA-BOO	TP	ABS	GE	Cycolac KJU	V0/5V	–
ACAB-BOO	TP	ABS	GE	Cycolac KJB	V0/5V	–
ACAC-DOO	TP	ABS	GE	Cycolac KJW	V0	–
ACAD-GOO	TP	ABS	GE	Cycolac T	HB	–
ACGA-DJO	TP	ABS	Akzo	G1204/SS/5/FR	V0	5% SS

Table 1 (Cont.): Current Plastic Materials and Identifiers

Code	General Type	Generic Material	Material Manufac-turer	Material Code/Trade Name	UL Reg-ulatory Code	Material/ Characteris-tics
ADKB-GOO	TP	PS	Dow	Styron 478	HB	
AEAA-DFB	TP	PEI	GE	Ultem - 2310	V0	30% Glass/ low viscosity
AEAB-DFC	TP	PEI	GE	Ultem D3453	V0	45% Glass and mineral
AEEA-DOO	TP	PEI	LNP	EF1006-EMMR-DEC	V0	–
AHEA-DFB	TP	PES	LNP	Victrex 3601 GL30	V0	30% Glass/ low viscosity
AHEB-DFO	TP	PES	LNP	Victrex 4101 GL30	V0	30% Glass
AHEC-DDA	TP	PES	LNP	PDX-88303-DEC	V0	20% Glass/ 7% carbon
AHED-DOO	TP	PES	LNP	PDX-89302-DEC	V0	–
AIBA-DFO	TP	LCP	Hoechst Celanese	Vectra A130	V0	30% Glass
AJBA-BGB	TP	PPS	Hoechst Celanese	Fortron 4184L4	5V/V0	37% Glass/ 16%mineral
AJBB-BGC	TP	PPS	Hoechst Celanese	Fortron 6165A4	5V/V0	33% Glass/ 32% mineral
AJFA-BOO	TP	PPS	Phillips	Ryton R4	V0/5V	–
AKAA-DFO	TP	PBT	GE	Valox 420-SEO	V0	30% Glass
AKBA-GOO	TP	PBT	Hoechst Celanese	Celanex 2002K	HB	–
ALCA-GOO	TP	PET	du Pont	Rynite 5093	HB	–
AMPA-DOO	TP	PVC	BF Goodrich	GEON 8700A	V0	–
AMQA-DOO	TP	PVC	Georgia Gulf	7045	V0	–
ANEG-GFO	TP	PA	LNP/ICI	Thermocomp RF1006HS-DEC	HB	30% Glass
APAA-BOB	TP	PC/ABS	GE	Cycoloy MC8220	5V/V0	Flame retardant
APDA-BOB	TP	ABS/PC	Mobay	Bayblend FR 1439	V0/5V	Flame retardant
APDB-BOB	TP	ABS/PC	Mobay	Bayblend FR 1440	V0/5V	Flame retardant
APDC-BOB	TP	ABS/PC	Mobay	Bayblend FR 1441	V0/5V	Flame retardant
APDD-BOB	TP	PC/ABS	Mobay	Bayblend FR90	5V/V0	Flame retardant
APKA-HOB	TP	PC/ABS	Dow	Pulse 1725	5VA/V0	Flame retardant
ARCA-GOO	TP	AC	du Pont	Delrin 500F	HB	–
ASNA-GOO	TP	PMMA	CYRO	Acrylite L-40	HB	–

Table 1 (Cont.): Current Plastic Materials and Identifiers

Code	General Type	Generic Material	Material Manufac-turer	Material Code/Trade Name	UL Reg-ulatory Code	Material/ Characteris-tics
CBAG-FOB	TPS	PC	GE	Lexan 9600	V2	Flame retardant sheet stock
CMJA-DOI	TPS	PVC	Sekisui	Eslon DC Plate	V0	ESD transparent
COIA-HOG	TPS	PVC/ABS	Polycast	Royalstat R632	5VA/V0	ESD
COIB-DOO	TPS	PVC/ABS	Polycast	Royalite R59	V0	Sheet stock
CVRA-DOB	TPS	PP	Fastek	Formex	V0	Flame retardant sheet stock
CVRB-DOG	TPS	PP	Fastek	Statex	V0	Flame retardant ESD sheet stock
DCAE-GOO	TPR	ABS	GE	GSE	HB	–
EAAA-AOA	TPF	PPO	GE	Noryl FN170	V1/5V	Foam
EAAB-BOA	TPF	PPO	GE	Noryl FN215	V0/5V	Foam
EAAH-AEC	TPF	PPO	GE	Noryl FM4025	V1/5V	25%Glass/ 15%mineral foam
EAAJ-ADC	TPF	PPO	GE	Noryl FM3020	5VA/V1	20% Glass/ 10% mineral foam
EBAA-COA	TPF	PC	GE	Lexan FL900	5V	Foam
EBAH-GOA	TPF	PC	GE	Lexan 9030	HB	Foam
EDKA-COA	TPF	PS	Dow	Styron 6087SF	5V	Foam
EDLA-COA	TPF	PS	Mobil	PS8020	5VA	Foam
EPDE-HOA	TPF	PC/ABS	Mobay	Bayblend DP2-1443	5VA/V0	Foam
JTOA-DOO	EL	PEUR	BASF	Elastollan VP 1175 A-10W	V0	–
MQDA-BOO	RIM	PUR	Mobay	Prism CM-100	V0/5V	–

Table 2: General Type—Character 4

Code	
A	Thermoplastic (TP)
B	Thermoplastic (TP)
C	Thermoplastic sheet stock (TPS)
D	Thermoplastic rod/block stock (TPR)
E	Thermoplastic foam (TPF)
F	Thermoset (TS)
G	Thermoset sheet stock (TSS)
H	Thermoset rod/block stock (TSR)
I	Thermoset foam (TSF)
J	Elastomer (EL)
K	Elastomer sheet stock (ELS)
L	Elastomer rod/block stock (ELR)
M	Reaction injection molding (RIM)
N	Reinforced reaction injection molding (RRIM)

Table 3: Generic Material—Character 5

Code	
A	Modified polyphenylene oxide (PPO)
B	Polycarbonate (PC)
C	Acrylonitrile butadiene styrene (ABS)
D	Polystyrene (PS)
E	Polyetherimide (PEI)
F	Polyester - unsaturated (BMC)
G	Polysulfone (PSF)
H	Polyethersulfone (PES)
I	Liquid-crystal polymers (LCP)
J	Polyphenylene sulfide (PPS)
K	Polybutylene terephthalate (PBT)
L	Polyethylene terephthalate (PET)
M	Polyvinyl chloride (PVC)
N	Nylon (PA)
O	PVC/ABS
P	ABS/PC
Q	Polyurethane (PUR)
R	Acetal (AC)
S	Polymethymethacrylate (PMMA)
T	Polyetherurethane (PEUR)
U	Polyesterurethane (PAUR)
V	Polypropylene (PP)

Table 4: Material Manufacturer—Character 6

Code	
A	General Electric
B	Hoechst Celanese
C	du Pont
D	Mobay
E	LNP/ICI
F	Phillips
G	Akzo
H	Uniroyal
I	Polycast Technologies
J	Sekisui
K	Dow
L	Mobil
M	PCI/Hoechst Celanese
N	CYRO
O	BASF
P	BF Goodrich
Q	Georgia Gulf
R	Fastek

Table 5: Material Code/Trade Name—Character 7

Code	
General Electric — Polyphenylene oxide (PPO)	
A	Noryl FN 170
B	Noryl FN 215
C	Noryl PX4400
D	Noryl N190
E	Noryl HM4025
F	Noryl HM5030
G	Noryl HM4025-R
H	Noryl FM4025
I	Noryl HM3020
J	Noryl FM3020
General Electric — Polycarbonate (PC)	
A	Lexan FL900
B	Lexan 940
C	Lexan BE2130
D	Lexan BE3030
E	Lexan 121
F	Lexan 141
G	Lexan 9600
H	Lexan 9030
I	Lexan 920A
J	Lexan ML6000
Mobay — Polycarbonate (PC)	
A	Makrolon 2600
B	Makrolon 2800
C	Makrolon 6455
Mobay — Polycarbonate/Acrylonitrile Butadiene styrene (PC-ABS)	
A	Bayblend FR 1439
B	Bayblend FR 1440
C	Bayblend FR 1441
D	Bayblend FR 90
E	Bayblend DP2-1443

Table 5 (Cont.): Material Code/Trade Name—Character 7

	PCI/Hoechst Celanese — Polycarbonate (PC)
A	Celstran PCG35-02-4
B	Celstran PCG25-02-4
	Dow — Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS)
A	Pulse 1725
	General Electric — Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS)
A	Cycoloy MC8220
	LNP — Polycarbonate (PC)
A	DF 1004-DEC
B	DF 1006-DEC
C	DF 1008-DEC
D	PDX-D-88728-DEC
E	PDX-D-88414-DEC
F	PDX-D-87190-DEC
G	Thermocomp RF1006HS-DEC
	General Electric — Acrylonitrile butadiene styrene (ABS)
A	Cycolac KJU
B	Cycolac KJB
C	Cycolac KJW
D	Cycolac T
E	Cycolac GSE
	Akzo — Acrylonitrile butadiene styrene (ABS)
A	G1204/SS/5/FR
	Mobil — Polystyrene (PS)
A	PS8020
	LNP/ICI — Polyetherimide (PEI)
A	EF1006 EMMR-DEC

Table 5 (Cont.): Material Code/Trade Name—Character 7

	Fastek — Polypropylene (PP)
A	Formex
B	Statex
	General Electric — Polyetherimide (PEI)
A	Ultem 2310
B	Ultem 3453
	LNP/ICI — Polyethersulfone (PES)
A	Victrex 3601 GL30
B	Victrex 4101 GL30
C	PDX - 88303-DEC
D	PDX - 89302-DEC
	Hoechst Celanese — Polybutylene terephthalate (PBT)
A	Celanex 2002K
	Hoechst Celanese — Liquid Crystal Polymer (LCP)
A	Vectra 130
	Dow — Polystyrene (PS)
A	Styron 6087SF
B	Styron 478
	Mobay — Polyurethane (PUR)
A	Prism CM-100
	General Electric –Polybutylene Terephthalate (PBT)
A	Valox 420-SEO
	du Pont — Polyethylene Terephthalate (PET)
A	Rynite 5093

Table 5 (Cont.): Material Code/Trade Name—Character 7

Polycast Technologies — Polyvinyl Chloride/ Acrylonitrile Butadiene Styrene (PVC/ABS)	
A	Royalstat R632
B	Royalite R59
Sekisui — Polyvinyl Chloride (PVC)	
A	Elson DC Plate
Georgia Gulf — Polyvinyl Chloride (PVC)	
A	7045
BF Goodrich — Polyvinyl Chloride (PVC)	
A	GEON 8700A
BASF — Polyetherurethane (PEUR)	
A	Elastollan VP 1175 A-10W
Phillips — Polyphenylene Sulfide (PPS)	
A	Ryton R4
Hoechst Celanese — Polyphenylene Sulfide (PPS)	
A	Fortron 4184L4
B	Fortron 6165A4
du Pont — Acetal (AC)	
A	Delrin 500F
CYRO — Polymethylmethacrylate (PMMA)	
A	Acrylite L-40

Table 6: UL Regulatory Code—Character 8

Code*	
A	5V / V1
B	V0/5V
C	5V
D	V0
E	V1
F	V2
G	HB
H	5VA/V0

*UL Regulatory Code is thickness dependent. These values represent highest flammability rating for a typical application thickness. Check the UL *yellow card* for other ratings at specific thicknesses.

Table 7: Material Characteristics—Characters 9 and 10

Code	
(filler content)	
OO	Nofiller
AO	5% Glass filled
BO	10% Glass filled
CO	15% Glass filled
DA	20% Glass/7% carbon
DB	20% Glass/10% mineral
DC	20% Glass/10% mineral/foam
DO	20% Glass filled
EO	25% Glass filled
EA	25% Glass/15% mineral
EB	25% Glass/15% mineral/release grade
EC	25% Glass/15% mineral/foam
ED	25% Long glass fiber
FA	30% Glass/20% mineral
FB	30% Glass/low viscosity
FC	45% Glass/mineral
FO	30% Glass filled
GA	35% Long glass fiber
GB	37% Glass/16% mineral
GC	33% Glass/32% mineral
GO	35% Glass filled
HO	40% Glass filled
IO	3% Stainless steel
JO	5% Stainless steel
JA	5% Stainless steel/colormatch 217

Table 7 (Cont.): Material Characteristics—Characters 9 and 10

KO	7% Stainless steel
LO	5% Nickel-coated graphite
MO	10% Nickel-coated graphite
NO	15% Nickel-coated graphite
PO	20% Nickel-coated graphite
Other characteristics	
OA	Foam
OB	Flame retardant
OC	Colormatch 217/068
OD	Low viscosity
OE	Low viscosity/transparent
OF	Medium viscosity
OG	ESD
OH	Transparent
OI	ESD/transparent

APPENDIX A OBSOLETE TABLES OF PLASTIC MATERIALS AND IDENTIFIERS

NOTE

The following tables appeared in previous revisions of this document. The materials were used as part of the material identifiers shown in the next table.

Generic Name	Trade Name	Grade	Processes	Manufacturer
Polyester	Valox	420–SEO	Injection	General Electric
Modified (PPO) Polyphenylene Oxide	Noryl	FN170	Injection (foam)	"
"	"	FN215	"	"
"	"	PC180	Injection	"
"	"	N190	"	"
Polycarbonate	Lexan	FL900	Inj. (foam)	"
"	"	940	Injection	"
"	"	BE2130	"	"
"	"	BE3030	"	"
"	"	123	"	"
"	"	141	"	"
"	"	9600	EXT.	"
Acrylonitrile/buta–diene styrene (ABS)	Cycolac	KJU		Borg–Warner
"	"	KJB	"	"
"	"	KJW	"	"
"	"	T	"	"
Polystyrene (PS)	None	702	INJ, EXT, TF	American Hoechst
"	"	703	"	"
"	"	705	"	"
	"	779	"	"
Polystyrene (cont)	"	703	Inj. (foam)	"
"	"	705	"	"
Polycarbonate	Merlon	M39	Injection	Mobay
"	"	M40	"	"
"	"	M6450	"	"
Polyetherimide	None	EF1006–	Injection	LNP Eng. Plas/ICI
"	"	EF1006	"	"
Polyester	Celanex	2002K	Injection	Celanese Eng. Resins Corp.

INJ = Injection Molding
EXT = Extrusion
TF = Thermoforming
FOAM = Structural Foam

Plastics' Material Identifier 076 - XX YY - ZZ W

NOTE

These material identifiers were used for engineering designs created before the release of DEC STD 076-0 Rev C dated 31-Jan-1990.

Material (XX)		Material (YY)			Part Mfg. Process (ZZ)		Manufacturer (W)	
Code	Generic Name	Code	Trade Name/Grade		Code	Method	Code	Name
AA	Modified (PPO) polyphenylene oxide	AA	Noryl	FN170	AA	INJ	A	General Electric
BB	Polycarbonate	BB	"	FN215	BB	EXT	B	Borg–Warner
CC	Acrylonitrile/ butadiene styrene (ABS)	CC	"	PC180	CC	TF	C	American Hoechst
DD	Polystyrene (P.S.)	DD	"	N 190	DD	FOAM	D	Mobay
EE	Polyetherimide	EE	Lexan	FL900			E	LNP Engineering Plastics/ICI
FF	Polyester	EF	"	BE2130			F	Celanese Engineering Resins Corp.
		AC	"	BE3030				
		AD	"	9600				
		FF	"	940				
		GG	"	121				
		HH	"	123				
		II	"	141				
		JJ	Cycolac / KJU					
		KK	"	KJB				
		LL	"	KJW				
		MM	"	T				
		NN	NONE	/ 702				
		OO	"	703				
		PP	"	705				
		QQ	"	779				
		RR	Merlon / M39					
		SS	"	M40				
		TT	"	M6450				
		UU	None/EF1006–EMMR					
		VV	None / EF1006					
		WW	Celanex / 2002K					
		AB	Valox / 420–SEO					General Electric

INJ = Injection Molding
EXT = Extrusion
TF = Thermoforming
FOAM = Structural Foam

APPENDIX B REFERENCED DOCUMENTS

B.1 EL-Class Digital Documents

EL-Class Number	Document Title
EL-00092-04	*DEC STD 092-4 Finish and Color Standard - Approved Finish Specifications*
EL-00178-01	*DEC STD 178-1 Digital Marking Requirements for Piece Parts*

Use VTX SMC to order copies of EL-class documents from Standards and Methods Control. Send distribution questions to JOKUR::SMC or call DTN: 234-4423.

APPENDIX C RELATED DOCUMENTS

C.1 Ordering Information

The list that follows gives the titles and ordering information for documents related to this standard.

- The *Plastics Design Manual* can be obtained from Plastics Technology and Development Group, TAY2-1/C02, DTN: 227-3472, DELNI::PUGLIA.
- The *Qualified Vendor List(QVL)* can be obtained from a local purchasing representative.
- Following are the sources for documents not available from within Digital Equipment Corporation.
  - American Society for Testing and Materials (ASTM),
    1916 Race Street,
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    33 Pfingsten Road, Northbrook, IL 60062
    Telephone (312) 272-8800, x2612 or x2622

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